

Johnson Creek Dam and Johnson Creek Reservoir

OWNER

Southwestern Electric Power Company.

ENGINEER (Design)

Freese, Nichols and Endress.

LOCATION

On Johnson Creek in Marion County, 13 miles northwest of Jefferson, and 4 miles south of Avinger.

DRAINAGE AREA

11 square miles.
Water may be purchased from Lake O' the Pines as needed to maintain desired water level.

DAM

Type	Earthfill
Length	2,530 ft
Height	60 ft
Top width	20 ft
Top elevation	296.0 ft above msl

SPILLWAY (emergency)

Location	Near right end of the dam
Crest length	300 ft
Crest elevation	286.0 ft above msl

SPILLWAY (service)

Location	Near center of dam
Type	Drop inlet
Size	20 by 20 ft
Crest elevation	282.0 ft above msl

OUTLET WORKS

Water is pumped from the reservoir to the generating station for condenser cooling and returned at a location to create circulation and cooling.
An 18-inch pipe with valve control is provided for the low-flow releases.

POWER FEATURES

Initial capacity	160,000 kw
Ultimate capacity	807,388 kw

STATE AUTHORIZATION

Permit No. 1963 (Application No. 2161), July 20, 1960, authorizes construction of a dam to create a reservoir of 10,100 acre-feet capacity and annual use of 6,668 acre-feet of water.

RESERVOIR DATA

Capacity	10,100 acre-feet at elevation 280.0 ft above msl
Area	650 acres at elevation 280.0 ft above msl

GENERAL

Construction started	June 16, 1960
Construction completed	August 4, 1961
Impoundment of water began	August 4, 1961
Water use began	May 1964
Contractor	Douglas A. Lott
Estimated cost of the dam	\$338,000

